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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/774,308	VIEIRA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Hanh Phan	2613	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 06/08/2006.
2. ☒ The allowed claim(s) is/are 7-13, 19, 20, 23 and 25-31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                       |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____.  |

*Hanh Phan*  
**HANH PHAN**  
**PRIMARY EXAMINER**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Lawrence T. Cullen on 09/12/2006.

2. The application has been amended as follows:

-Claim 23, lines 1-13, the phrase "An optical wavelength switch comprising:  
an input for receiving at least a first information-bearing signal having a first wavelength and a second information-bearing signal having a second wavelength;  
at least two all-optical wavelength converter circuits, each wavelength converter circuit including a laser diode, the laser diode of one of the at least two wavelength converter circuits being in communication with one of the at least first and second information-bearing signals, the laser diode of the other of the at least two wavelength converter circuits being in communication with the other of the at least first and second information-bearing signals, wherein the laser diode in each of the wavelength converter circuits transfers information of the respective information-bearing signal to another wavelength using cross-gain modulation in the laser diode; and  
an output for transmitting the at least first and second information-bearing signals, wherein the first information-bearing signal has the second wavelength and the

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second information-bearing signal has the first wavelength.” is now changed to -- An optical wavelength switch comprising:

an input for receiving at least a first information-bearing signal having a first wavelength and a second information-bearing signal having a second wavelength;

at least two all-optical wavelength converter circuits, each wavelength converter circuit including a laser diode, the laser diode of one of the at least two wavelength converter circuits being in communication with one of the at least first and second information-bearing signals, the laser diode of the other of the at least two wavelength converter circuits being in communication with the other of the at least first and second information-bearing signals, wherein the laser diode in each of the wavelength converter circuits transfers information of the respective information-bearing signal to another wavelength using cross-gain modulation in the laser diode; and

an output for transmitting the at least first and second information-bearing signals, wherein the first information-bearing signal has the second wavelength and the second information-bearing signal has the first wavelength,

wherein the all optical wavelength converter circuits include a polarization controller which adjusts the polarization of the information-bearing signal in communication with the laser diode prior to the laser diode transferring the information of the respective information-bearing signal to another wavelength, and

wherein the laser diode is a pulsed laser diode or a fiber laser diode.--.

-Claim 24 is canceled.

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Phan whose telephone number is (571)272-3035.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached on (571)272-3022. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

  
**HANH PHAN**  
**PRIMARY EXAMINER**